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- System Requirements
- Baseline Test Results
- **⇒** Extended Range Phase
- ⇒ SuW Quicklook Test Results
- **⇒** Program Status

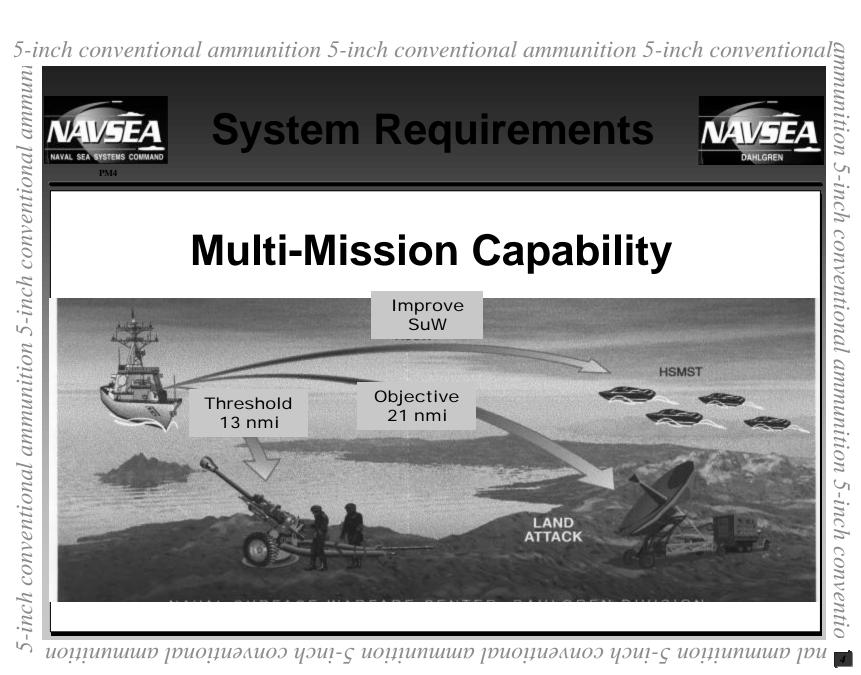




Meet the USMC's requirement for "inexpensive, volume fire munitions" during the "critical early stages of ship-to-objective maneuvers when organic artillery is afloat"

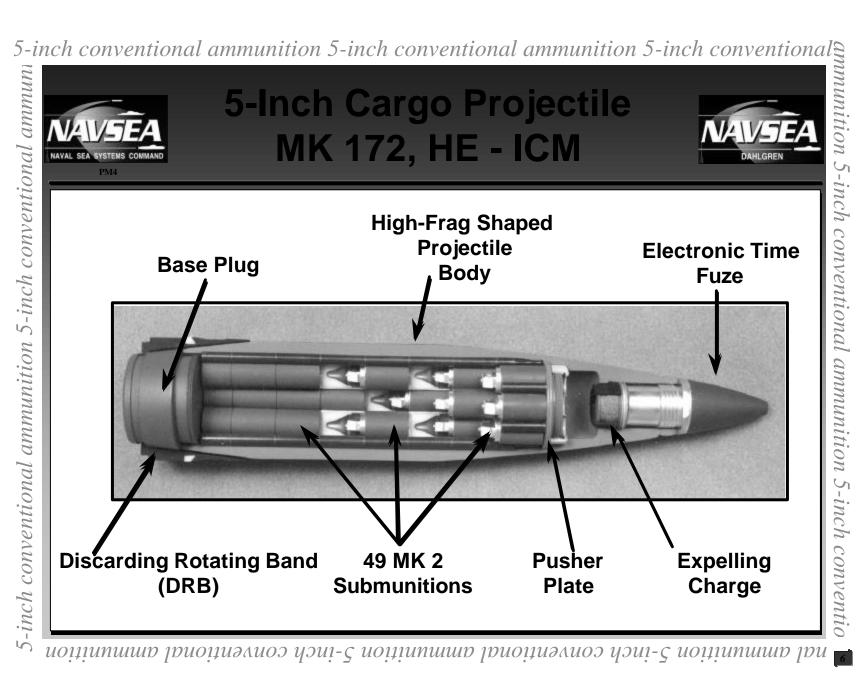








- ⇒ 14 June 2000
- Requested COMOPTEVFOR to provide an operational assessment for 13 nmi (threshold) and 21 nmi (objective)
- Demonstration of SuW capability
- ⇒ Planned for 2<sup>nd</sup> Qtr FY02 on DDG-82





- Baseline Phase is complete
- Gunfired over 210 projectiles
  - Expulsion rate for M762 fuzed projectiles -97.3%
  - Submunition dud rate 1.8%

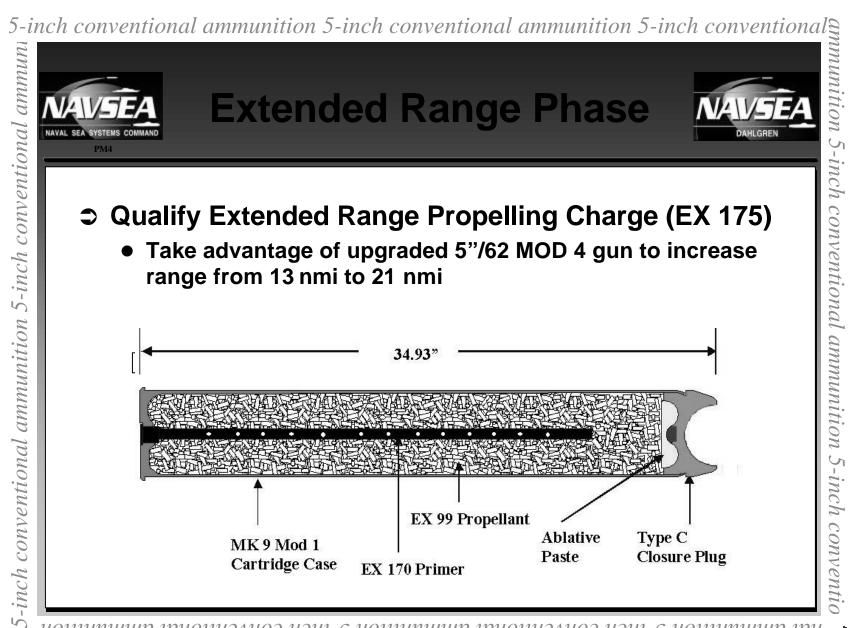
Numbers include before/after environmental testing and 5"/54 service proof pressures.





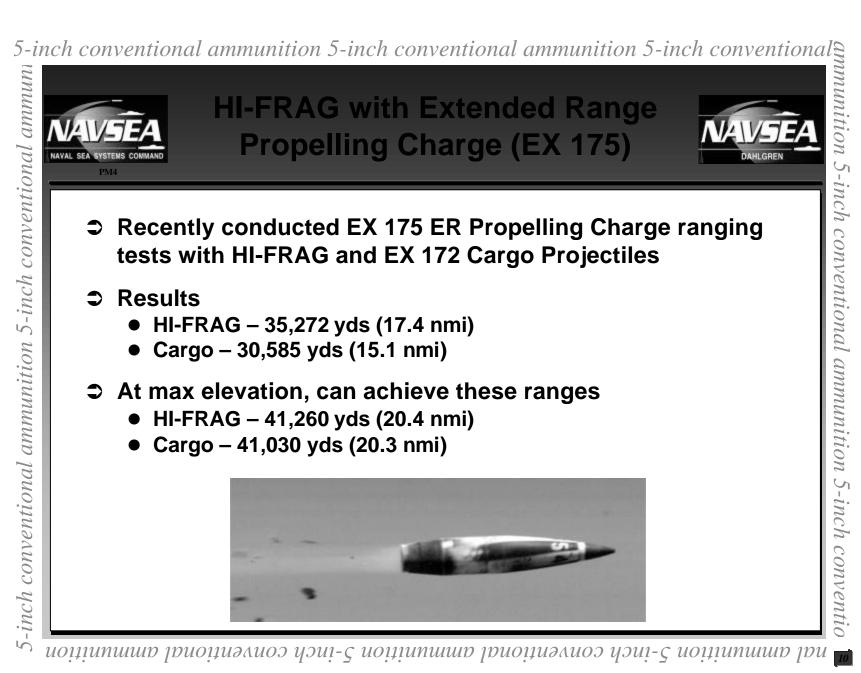


5-inch conventional ammunition 5-inch conventional ammun

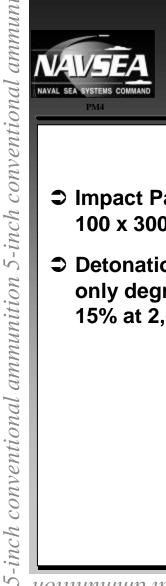




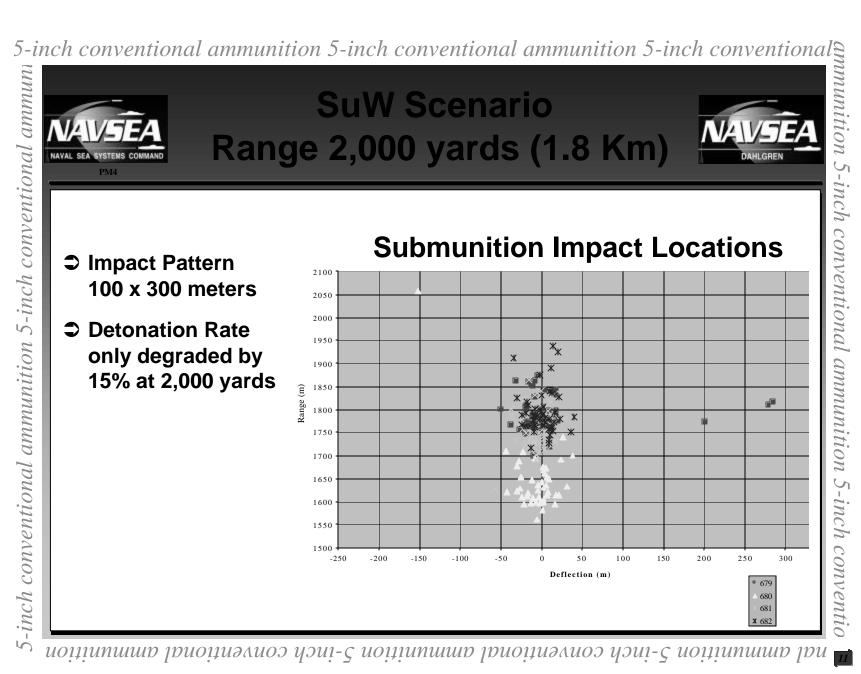




5-inch conventional ammunition 5-inch conventional ammun



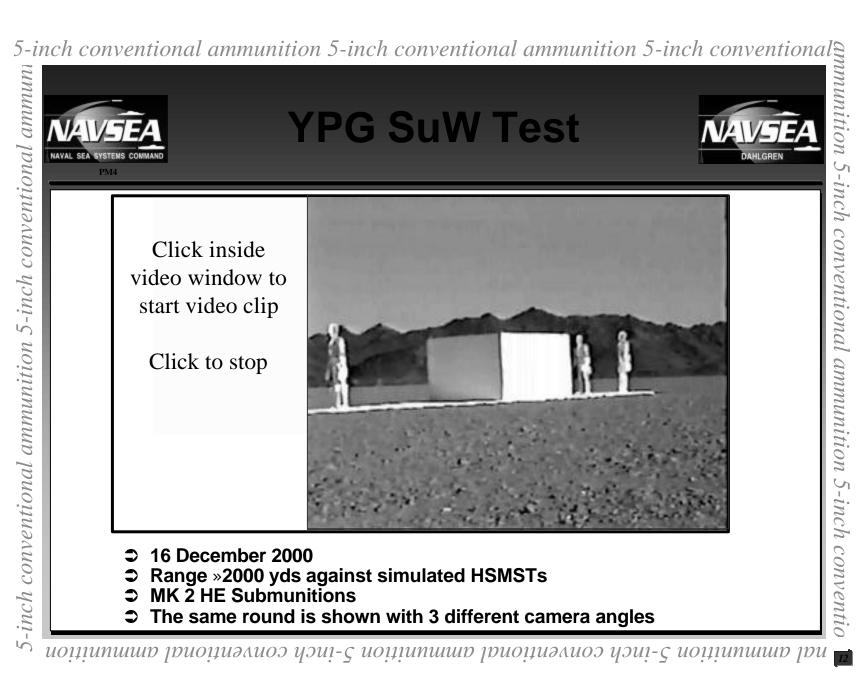








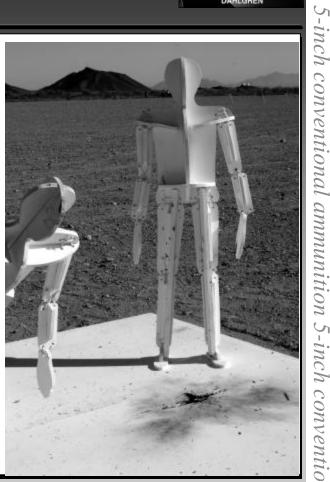








**⇒ MK 2 Submunition Fragment and Shaped Charge Damage** 



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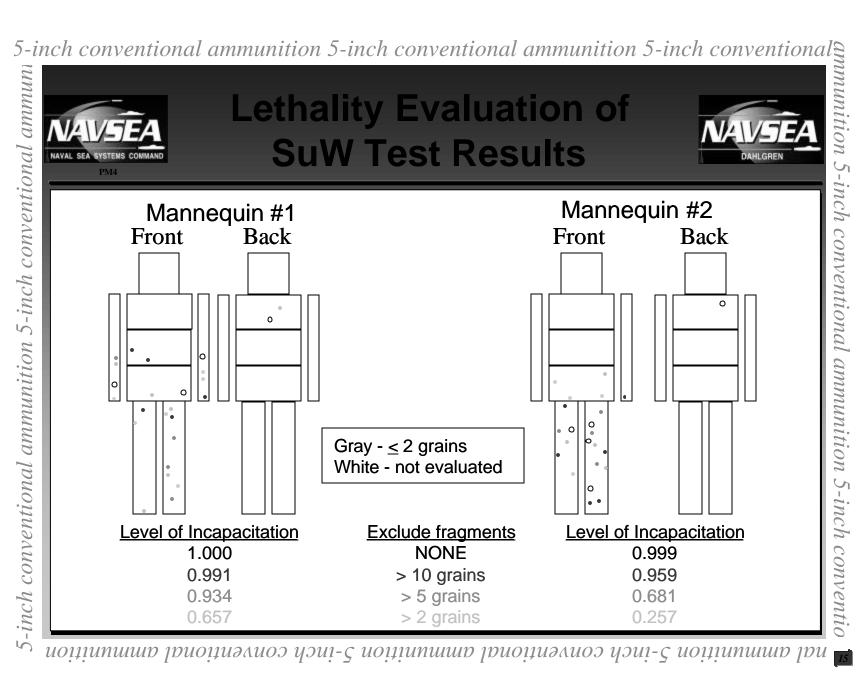




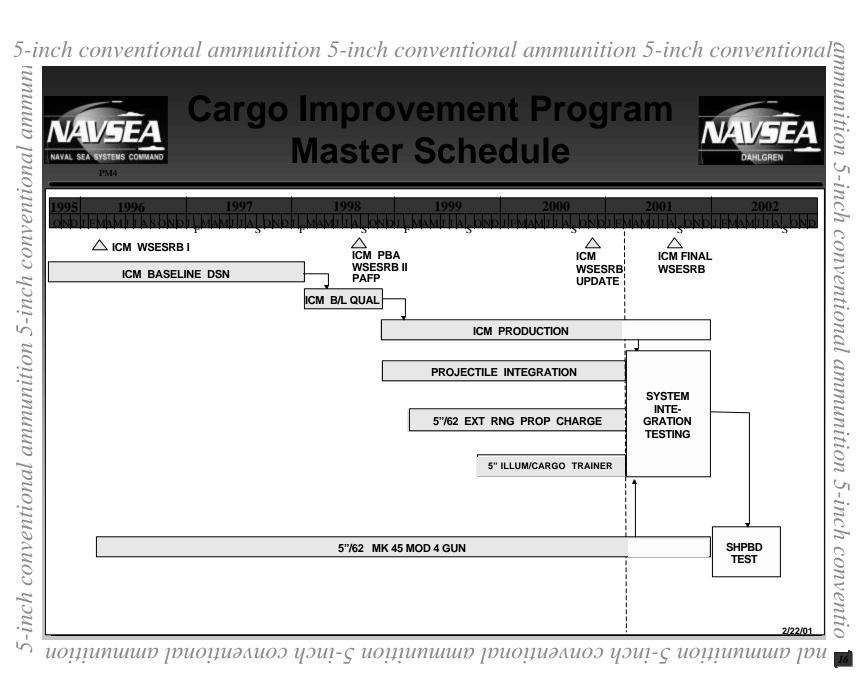
## 5-inch conventional ammunition **SuW Test Results**



- Location, length, width, and depth of fragment impacts physically recovered from plywood mannequins
- **Estimate mass and velocity of each impact**
- Compute level of incapacitation of each impact
  - Sperrazza-Kokinakis algorithm
    - > Soldier with helmet and winter clothing



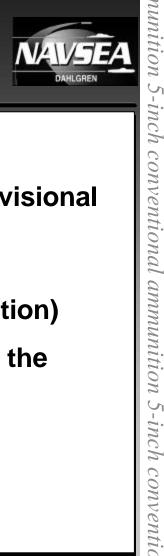








# 5-inch conventional ammunition 5-inch conventional ammunition



- ⇒ Weapon System Explosives Safety Review Board (WSESRB) recommended Provisional Approval for Production (PAFP) on 3/25/98
- **⇒** Limited production of 14,300 projectile body assemblies initiated (w/minimum of 100% option)
- **⇒** Joint Army/Navy buy of submunitions saved the Army over \$2.5M and the Navy over \$2M
- First deliveries are anticipated in FY01
- Received numerous FMS inquiries

